



Thermo Scientific Revco® Freezers -40°C to -150°C

Safe, reliable storage for
valuable samples and materials

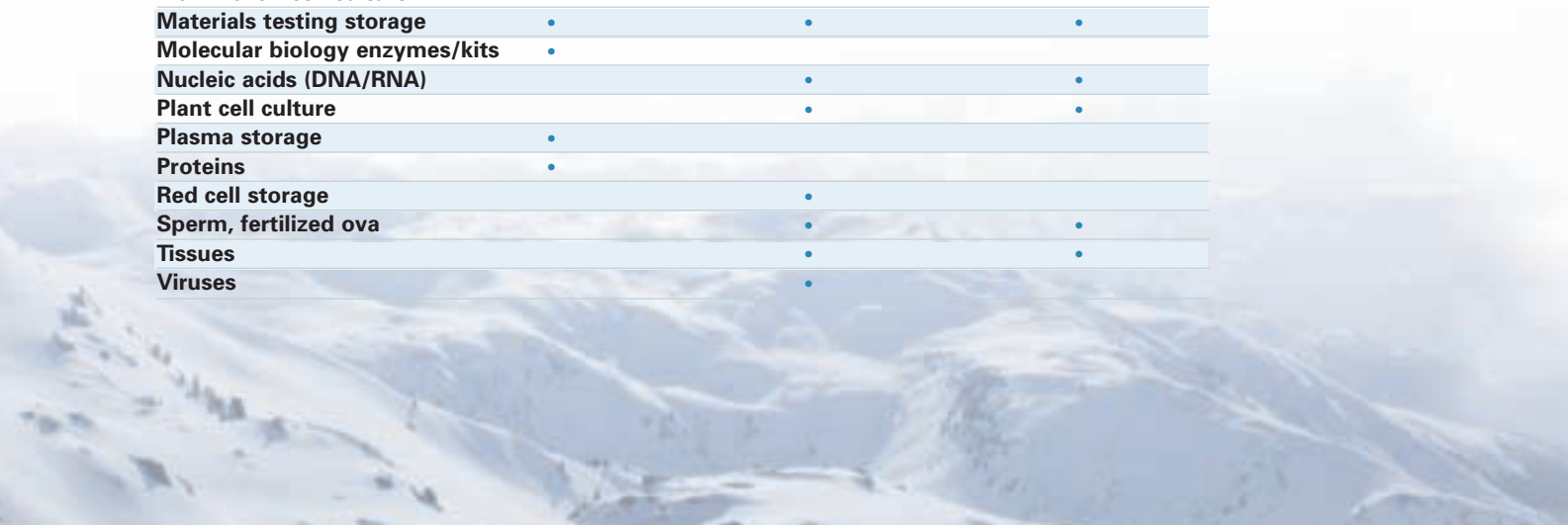
Protecting Your Precious Samples

Researchers worldwide protect more than two billion samples inside Thermo Scientific cold storage equipment. With proven solutions including +4°C refrigerators to -196°C cryogenic freezers and Nalgene® and Nunc™ consumables, you're free to concentrate on your work without worrying about your valuable samples.



Typical Storage Applications by Operating Temperature

	Low -10°C to -40°C	Ultra-Low -50°C to -86°C	Cryogenic -140°C to -150°C
Bacteria	•	•	•
Blood component additives		•	•
Bone marrow		•	•
Clinical samples	•	•	•
Fungi (yeasts/spores/molds)	•	•	•
Insect cell culture		•	•
Mammalian cell culture		•	•
Materials testing storage	•	•	•
Molecular biology enzymes/kits	•		
Nucleic acids (DNA/RNA)		•	•
Plant cell culture		•	•
Plasma storage	•		
Proteins	•		
Red cell storage		•	
Sperm, fertilized ova		•	•
Tissues		•	•
Viruses		•	



*Reliable, dependable
performance for demanding
laboratory conditions*



Thermo Scientific Revco Freezers

Ultra-Low and Cryogenic Storage

Designed for long-term storage of biologicals, blood components and pharmaceuticals, our freezers incorporate the latest refrigeration and microprocessor-based control technology developed to increase reliability, stability and dependability.

Our cryogenic freezers feature patented orbital refrigeration that delivers temperature uniformity as low as -150°C .

All of our freezers, including space-saving uprights and low-profile chest models, share design and technology improvements developed through decades of experience.

**Features and
Benefits**

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Thermo Scientific Revco Freezers

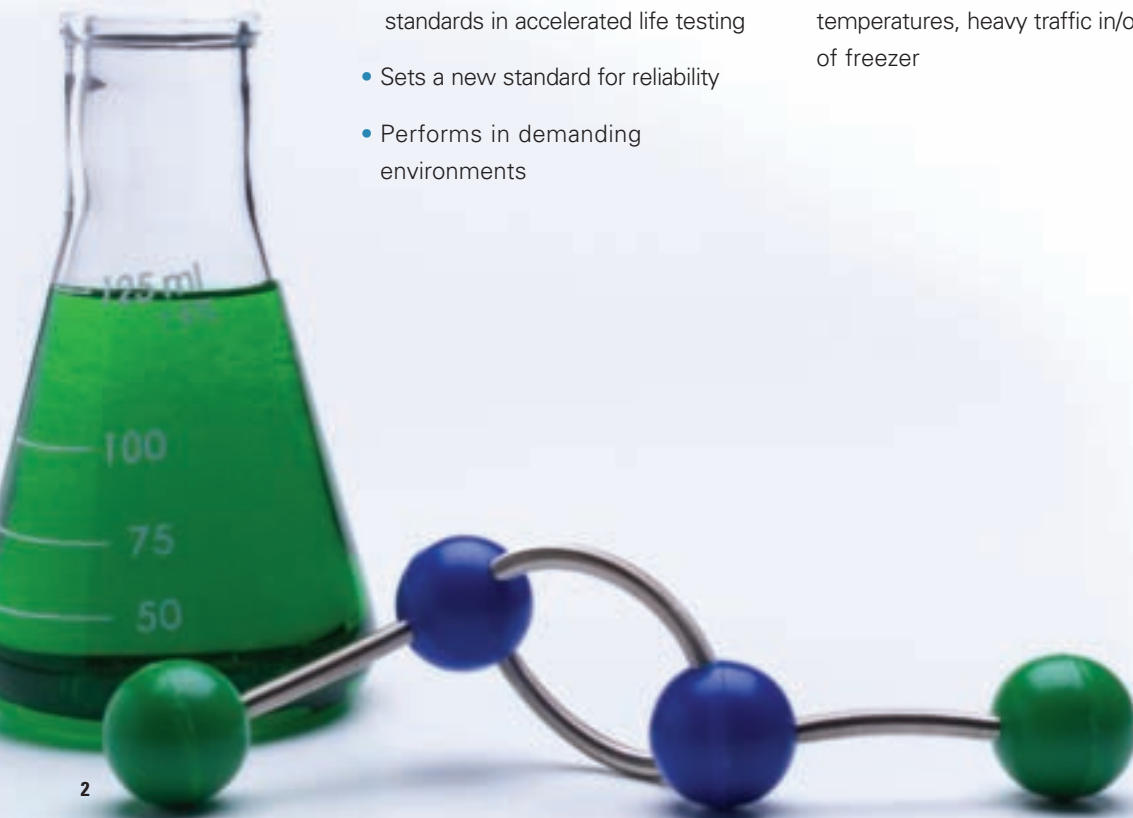
Our chest and upright freezers share an advanced technology and design platform with three distinct series – Ultima II, Elite and Value – our portfolio offers multiple levels of control sophistication to meet your needs.



Advanced Refrigeration Technology

Our freezers feature the Legaci® refrigeration system with fully integrated cooling technology for ultra-low temperature use. Our Legaci system is more dependable, specifically designed and tested to operate at temperatures from -40°C to -86°C in a rugged laboratory environment without exceeding parameters of any sub-component within the system.

- Our Legaci system meets or exceeds the highest performance standards in accelerated life testing
- Sets a new standard for reliability
- Performs in demanding environments
- Tolerates recurring voltage fluctuations, high ambient temperatures, heavy traffic in/out of freezer



Advanced Cabinet Construction

Outer Door

Minimum 3" (76mm) high-strength, foamed-in-place urethane insulation

Outer Door Hinges

Independently mounted for each door

Access Port

1" diameter (25.4mm) on rear wall, left corner

Inner Doors

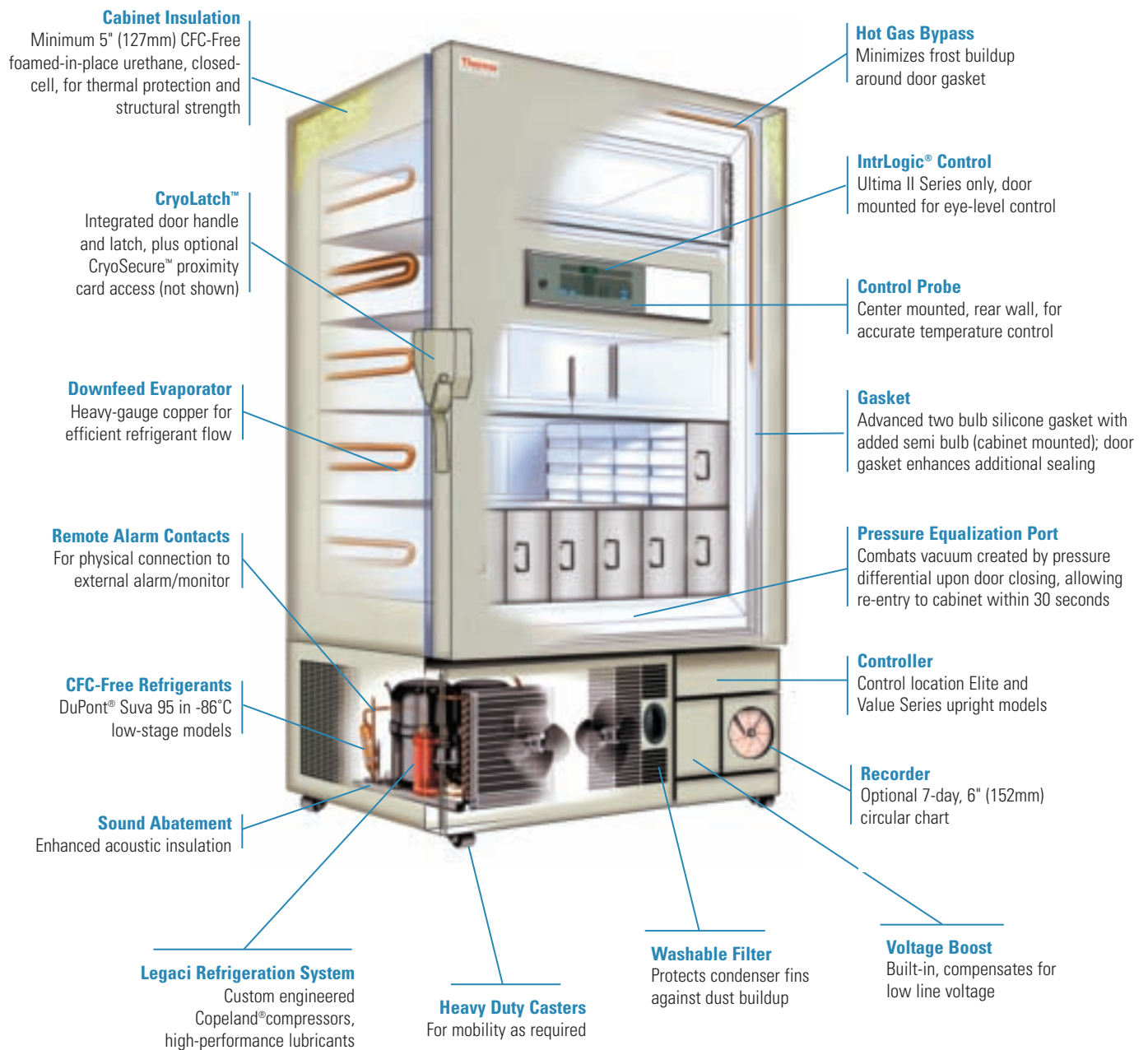
High-impact plastic with recessed handle

Interior Shelves

Stainless steel, top shelf fixed, three adjustable

Inventory Racks

Optional, stainless steel with fiberboard boxes and dividers



Cabinet Insulation

Minimum 5" (127mm) CFC-Free foamed-in-place urethane, closed-cell, for thermal protection and structural strength

CryoLatch™

Integrated door handle and latch, plus optional CryoSecure™ proximity card access (not shown)

Downfeed Evaporator

Heavy-gauge copper for efficient refrigerant flow

Remote Alarm Contacts

For physical connection to external alarm/monitor

CFC-Free Refrigerants

DuPont® Suva 95 in -86°C low-stage models

Sound Abatement

Enhanced acoustic insulation

Legaci Refrigeration System

Custom engineered Copeland® compressors, high-performance lubricants

Heavy Duty Casters

For mobility as required

Washable Filter

Protects condenser fins against dust buildup

Hot Gas Bypass

Minimizes frost buildup around door gasket

IntrLogic® Control

Ultima II Series only, door mounted for eye-level control

Control Probe

Center mounted, rear wall, for accurate temperature control

Gasket

Advanced two bulb silicone gasket with added semi bulb (cabinet mounted); door gasket enhances additional sealing

Pressure Equalization Port

Combats vacuum created by pressure differential upon door closing, allowing re-entry to cabinet within 30 seconds

Controller

Control location Elite and Value Series upright models

Recorder

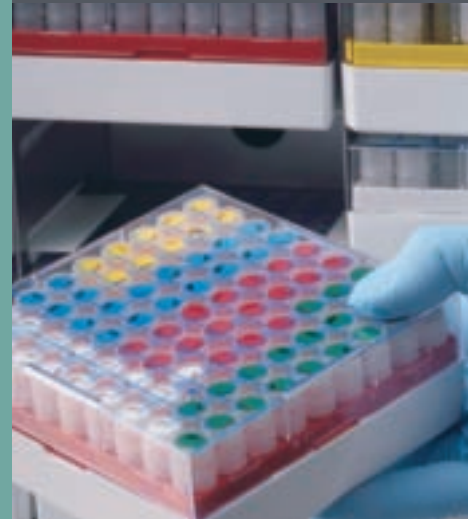
Optional 7-day, 6" (152mm) circular chart

Voltage Boost

Built-in, compensates for low line voltage

IntrLogic Microprocessor Control

Our IntrLogic microprocessor control is the industry's most comprehensive management system for temperature control, electrical power, alarm and monitoring functions. IntrLogic provides secure, interactive control to assure the highest level of security for the stored product and refrigeration components.



Developed for Thermo Scientific Revco Ultima II Ultra-Low and Cryogenic Storage Freezers

Our IntrLogic control features a standard RS-232 data port with system software for quick PC installation.

Remote data logging functions include setpoint, high and low limit and power supply monitoring to advise of temperature deviation, voltage boost, surge intercept, low battery, and prompt to clean filter. An automatic status report is adjustable in intervals of five seconds to two hours.

Door Mounted Control

Standard eye-level location on all Ultima II upright cabinets

Setpoint Security

Key-operated switch for main power and alarm locks in temperature and alarm setpoints

Alarm Test

Touchpad test function physically warms internal probe to simulate alarm condition

Temperature Control with Minimal Energy Consumption

The IntrLogic control surveys ambient conditions and critical points within the refrigeration system several times each second. Processing this information real time ensure maximum sample protection.

Audible/Visual Warning

Activates automatically in event of power failure or temperature deviation

Lifeguard Compressor Protection

Monitors performance and automatically adjusts to internal and external conditions, extending Legaci compressor life

Surge Suppressor Indicator

Reduces impact of voltage spikes or storm surges from incoming electrical service; indicator advises to check intercept fuse

Power Monitor

Push-button digital display of incoming line voltage

Digital Display

Clear, easy-to-read display of all functions

Digital Battery Indicator

Displays percent battery capacity remaining

Battery Backup

Continuous charge provides full function in case of power failure

LN₂/CO₂ Backup System

Optional, integrated into main control panel; specify when ordering

Extreme Ambient Alert

Warns if room temperature may affect performance

Clean Filter Light

Advises when to remove and wash condenser filter to maintain best cooling performance

Low Battery Alarm

Flashing light advises when to replace battery



A.I.M. (Automatic Incident Monitor)

identifies temperature deviation beyond alarm setpoint; rapid flash for current event, slow flash if event was self-corrected; recalls most deviated temperature

Touchpad

Data Entry adjustable in 1°C increments

Setpoints

Independent operating temperature and high/low alarm setpoints factory set defaults for quick start-up

Voltage Boost

Automatically compensates for low voltage

Thermo Scientific Revco Ultima II Freezers

*Developed for the most critical
material storage.*



Available in general purpose and blood bank configurations, each of our Revco Ultima II freezers include the IntrLogic microprocessor control system with built-in voltage boost and surge suppressor. Models feature convenient eye-level controls on upright models, and comprehensive monitoring technology such as Lifeguard compressor protection, A.I.M. incident monitor, and extreme ambient alert.





Setpoint security system with key-operated switch

Automatic Incident Monitor (AIM)

Advanced temperature control

Battery backup

Extreme ambient alert

Control System

- Exclusive IntrLogic microprocessor control system with touchpad data entry and digital display of all functions
- Setpoint security system with key-operated switch for main power and alarm locks in temperature and alarm setpoints
- On-board power monitoring with digital readout of incoming line voltage
- Built-in surge suppressor minimizes effect of voltage spikes from incoming electrical service

Alarm System

- A.I.M. (Automatic Incident Monitor) identifies any temperature deviation beyond alarm setpoints, with rapid flash for current event, slow flash if event was self-corrected; A.I.M. archives most deviated temperature
- Adjustable safety alarm with automatic, continuous charge battery backup provides full alarm function in case of power failure
- Power failure or temperature deviation triggers audible and visual warning
- Digital battery indicator displays battery capacity; flashing low battery indicator advises when to replace battery
- Touchpad alarm test function physically warms internal probe to simulate alarm condition
- RS-232 data port with system software package
- Exterior alarm contacts for connection to remote monitoring system

Monitoring System

- Lifeguard compressor protection monitors performance and automatically adjusts to internal and external conditions, extending compressor life
- Extreme ambient alert warns if room temperature may affect performance
- Voltage boost indicator advises of low source voltage below safe parameters and indicates voltage boost system is activated
- Surge suppressor indicator advises to check intercept fuse
- Clean filter indicator light advises when to remove and wash condenser filter

Thermo Scientific Revco Freezers

Revco Ultima II Upright Freezers

Temperature Range: -50°C to -86°C

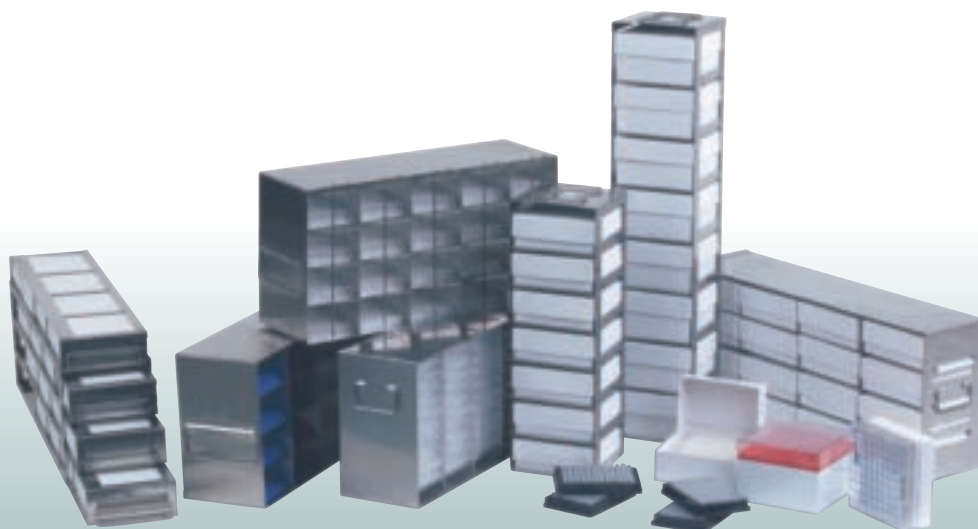
Model No.	Cu.Ft. (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions* H x D x W inches (mm)	Exterior Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
ULT-1386-9-A	13.4 (379)	115V 60Hz 1Ø	16/20 (P2)	50.5 x 19.5 x 23.5 (1280 x 500 x 600)	77.5 x 31.3 x 37.1 (1970 x 796 x 942)	655 (297)
ULT-1386-9-D	13.4 (379)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1386-9-V	13.4 (379)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1386-9-W	13.4 (379)	230V 50Hz 1Ø	12/13 (P8)			

Revco Ultima II Chest Freezers

Temperature Range: -40°C to -86°C

Model No.	Cu.Ft. (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions* H x D x W inches (mm)	Exterior Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
ULT-390-9-A	3.1 (88)	115V 60Hz 1Ø	16/20 (P2)	17.0 x 17.0 x 19.0 (430 x 430 x 480)	44.5 x 29.9 x 30.2 (1156 x 760 x 766)	415 (188)
ULT-390-9-D	3.1 (88)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-390-9-V	3.1 (88)	230V 50Hz 1Ø	12/16 (P7)			
ULT-390-9-W	3.1 (88)	230V 50Hz 1Ø	12/13 (P8)			
ULT-790-9-A	6.8 (193)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 23.5 (670 x 480 x 600)	41.0 x 31.8 x 48.5 (1040 x 808 x 1230)	525 (238)
ULT-790-9-D	6.8 (193)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-790-9-V	6.8 (193)	230V 50Hz 1Ø	12/16 (P7)			
ULT-790-9-W	6.8 (193)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1090-9-A	10.3 (292)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 32.25 (670 x 480 x 900)	41.0 x 31.8 x 60.25 (1040 x 808 x 1530)	680 (308)
ULT-1090-9-D	10.3 (292)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1090-9-V	10.3 (292)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1090-9-W	10.3 (292)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1490-9-A	13.7 (388)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 47.0 (670 x 480 x 1190)	41.0 x 31.8 x 72.0 (1040 x 808 x 1830)	650 (295)
ULT-1490-9-D	13.7 (388)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1490-9-V	13.7 (388)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1490-9-W	13.7 (388)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1790-9-A	17.1 (484)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 58.75 (670 x 480 x 1490)	41.0 x 31.8 x 83.75 (1040 x 808 x 2130)	770 (350)
ULT-1790-9-D	17.1 (484)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1790-9-V	17.1 (484)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1790-9-W	17.1 (484)	230V 50Hz 1Ø	12/13 (P8)			
ULT-2090-9-A	20.5 (580)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 70.5 (670 x 480 x 1790)	41.0 x 31.8 x 95.5 (1040 x 808 x 2430)	940 (427)
ULT-2090-9-D	20.5 (580)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-2090-9-V	20.5 (580)	230V 50Hz 1Ø	12/16 (P7)			
ULT-2090-9-W	20.5 (580)	230V 50Hz 1Ø	12/13 (P8)			

*All dimensions and specifications subject to change without notice. External dimensions include allowances for cabinet door, hinges, latches, handles, and control panel protrusions.



Ensure the easy retrieval of precious samples and minimize exposure to ambient conditions with our Thermo Scientific Revco rack solutions. Your sales representative can suggest the optimal rack configuration for your storage needs.

Revco Ultima II Upright Freezers

Temperature Range: -10°C to -40°C

Model No.	Cu.Ft. (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions* H x D x W inches (mm)	Exterior Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
ULT-1340-9-A	13.4 (379)	115V 60Hz 1Ø	16/20 (P2)	50.5 x 19.5 x 23.5 (1280 x 500 x 600)	77.5 x 31.3 x 37.1 (1970 x 796 x 942)	595 (270)
ULT-1340-9-D	13.4 (379)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1340-9-V	13.4 (379)	230 V 50Hz 1Ø	12/16 (P7)			
ULT-1340-9-W	13.4 (379)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1740-9-A	17.2 (487)	115V 60Hz 1Ø	16/20 (P2)	50.5 x 25 x 23.5 (1280 x 640 x 600)	77.5 x 36.8 x 37.1 (1970 x 935 x 942)	630 (286)
ULT-1740-9-D	17.2 (487)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1740-9-V	17.2 (487)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1740-9-W	17.2 (487)	230V 50Hz 1Ø	12/13 (P8)			
ULT-2140-9-A	20.2 (572)	115V 60Hz 1Ø	16/20 (P2)	50.5 x 24.25 x 28.5 (1280 x 620 x 720)	77.5 x 36.1 x 42.2 (1970 x 91 x 1070)	680 (309)
ULT-2140-9-D	20.2 (572)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-2140-9-V	20.2 (572)	230V 50Hz 1Ø	12/16 (P7)			
ULT-2140-9-W	20.2 (572)	230V 50Hz 1Ø	12/13 (P8)			
ULT-2540-9-A	24.4 (691)	115V 60Hz 1Ø	16/20 (P2)	50.5 x 24.25 x 34.5 (1280 x 620 x 880)	77.5 x 36.1 x 48.1 (1970 x 916 x 1222)	770 (350)
ULT-2540-9-D	24.4 (691)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-2540-9-V	24.4 (691)	230V 50Hz 1Ø	12/16 (P7)			
ULT-2540-9-W	24.4 (691)	230V 50Hz 1Ø	12/13 (P8)			

Revco Ultima II Chest Freezers

Temperature Range: -10°C to -40°C

Model No.	Cu.Ft. (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions* H x D x W inches (mm)	Exterior Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
ULT-350-9-A	3.1 (88)	115V 60Hz 1Ø	16/20 (P2)	17.0 x 17.0 x 19.0 (430 x 430 x 480)	44.5 x 29.9 x 30.2 (1156 x 760 x 766)	415 (188)
ULT-350-9-D	3.1 (88)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-350-9-V	3.1 (88)	230V 50Hz 1Ø	12/16 (P7)			
ULT-350-9-W	3.1 (88)	230V 50Hz 1Ø	12/13 (P8)			
ULT-750-9-A	6.8 (193)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 23.5 (670 x 480 x 600)	41.0 x 31.8 x 48.5 (1040 x 808 x 1230)	525 (238)
ULT-750-9-D	6.8 (193)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-750-9-V	6.8 (193)	230V 50Hz 1Ø	12/16 (P7)			
ULT-750-9-W	6.8 (193)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1050-9-A	10.3 (292)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 32.25 (670 x 480 x 900)	41.0 x 31.8 x 60.25 (1040 x 808 x 1530)	680 (308)
ULT-1050-9-D	10.3 (292)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1050-9-V	10.3 (292)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1050-9-W	10.3 (292)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1450-9-A	13.7 (388)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 47.0 (670 x 480 x 1190)	41.0 x 31.8 x 72.0 (1040 x 808 x 1830)	650 (295)
ULT-1450-9-D	13.7 (388)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1450-9-V	13.7 (388)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1450-9-W	13.7 (388)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1750-9-A	17.1 (484)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 58.75 (670 x 480 x 1490)	41.0 x 31.8 x 83.75 (1040 x 808 x 2130)	770 (350)
ULT-1750-9-D	17.1 (484)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1750-9-V	17.1 (484)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1750-9-W	17.1 (484)	230V 50Hz 1Ø	12/13 (P8)			
ULT-2050-9-A	20.5 (580)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 70.5 (670 x 480 x 1790)	41.0 x 31.8 x 95.5 (1040 x 808 x 2430)	940 (427)
ULT-2050-9-D	20.5 (580)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-2050-9-V	20.5 (580)	230V 50Hz 1Ø	12/16 (P7)			
ULT-2050-9-W	20.5 (580)	230V 50Hz 1Ø	12/13 (P8)			

*All dimensions and specifications subject to change without notice. External dimensions include allowances for cabinet door, hinges, latches, handles, and control panel protrusions.

Thermo Scientific Revco Elite Freezers

Our Revco Elite freezers are built to meet high standards for performance and safety. They feature microprocessor controls, alarm/monitor systems and rugged cabinet construction found throughout our entire freezer product line. Maximize the value of your freezer with our intelligent rack solutions and accessories.



Control System

- Microprocessor control system with touchpad data entry and digital display of all functions
- Key-operated switch for main power and alarm
- Independent operating temperature and high/low limit alarm functions with factory-set defaults for quick start-up, all setpoints adjustable in 1°C increments

Electrical System

- On-board power monitoring with digital readout of incoming line voltage
- Optional free-standing surge suppressor minimizes effect of voltage spikes from incoming electrical service



Alarm System

- A.I.M. (Automatic Incident Monitor) identifies any temperature deviation beyond alarm setpoints, with rapid flash for current event, slow flash if event was self-corrected; A.I.M. archives most deviated temperature
- Adjustable safety alarm with automatic, continuous charge battery backup provides full alarm function in case of power failure
- Power failure or temperature deviation triggers audible and visual warning
- Digital battery indicator displays battery capacity; flashing low battery indicator advises when to replace battery

- Touchpad alarm test function physically warms internal probe to simulate alarm condition
- RS-232 data port with system software package
- Exterior alarm contacts for connection to remote monitoring system

Monitoring System

- Voltage boost indicator advises of low source voltage below safe parameters and indicates voltage boost system is activated
- Clean filter indicator light advises when to remove and wash condenser filter



Revco Elite Upright Freezers

Temperature Range: -50°C to -86°C

Model No.	Cu.Ft. (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions* H x D x W inches (mm)	Exterior Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
ULT-1386-5-A	13.4 (379)	115V 60Hz 1Ø	16/20 (P2)	50.5 x 19.5 x 23.5 (1280 x 500 x 600)	77.5 x 31.3 x 37.1 (1970 x 796 x 942)	655 (297)
ULT-1386-5-D	13.4 (379)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1386-5-V	13.4 (379)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1386-5-W	13.4 (379)	230V 50Hz 1Ø	12/13 (P8)			

Revco Elite Chest Freezers

Temperature Range: -50°C to -86°C

Model No.	Cu.Ft. (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions* H x D x W inches (mm)	Exterior Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
ULT-390-5-A	3.1 (88)	115V 60Hz 1Ø	16/20 (P2)	17.0 x 17.0 x 19.0 (430 x 430 x 480)	44.5 x 29.9 x 30.2 (1156 x 760 x 766)	415 (188)
ULT-390-5-D	3.1 (88)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-390-5-V	3.1 (88)	230V 50Hz 1Ø	12/16 (P7)			
ULT-390-5-W	3.1 (88)	230V 50Hz 1Ø	12/13 (P8)	26.5 x 19.0 x 23.5 (670 x 480 x 600)	41.0 x 31.8 x 48.5 (1040 x 808 x 1230)	525 (238)
ULT-790-5-A	6.8 (193)	115V 60Hz 1Ø	16/20 (P2)			
ULT-790-5-D	6.8 (193)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-790-5-V	6.8 (193)	230V 50Hz 1Ø	12/16 (P7)	26.5 x 19.0 x 32.25 (670 x 480 x 900)	41.0 x 31.8 x 60.25 (1040 x 808 x 1530)	680 (308)
ULT-790-5-W	6.8 (193)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1090-5-A	10.3 (292)	115V 60Hz 1Ø	16/20 (P2)			
ULT-1090-5-D	10.3 (292)	208/230V 60Hz 1Ø	12/15 (P4)	26.5 x 19.0 x 47.0 (670 x 480 x 1190)	41.0 x 31.8 x 72.0 (1040 x 808 x 1830)	650 (295)
ULT-1090-5-V	10.3 (292)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1090-5-W	10.3 (292)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1490-5-A	13.7 (388)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 58.75 (670 x 480 x 1490)	41.0 x 31.8 x 83.75 (1040 x 808 x 2130)	770 (350)
ULT-1490-5-D	13.7 (388)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1490-5-V	13.7 (388)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1490-5-W	13.7 (388)	230V 50Hz 1Ø	12/13 (P8)	26.5 x 19.0 x 70.5 (670 x 480 x 1790)	41.0 x 31.8 x 95.5 (1040 x 808 x 2430)	940 (427)
ULT-1790-5-A	17.1 (484)	115V 60Hz 1Ø	16/20 (P2)			
ULT-1790-5-D	17.1 (484)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1790-5-V	17.1 (484)	230V 50Hz 1Ø	12/16 (P7)	20.5 (580)	41.0 x 31.8 x 95.5 (1040 x 808 x 2430)	940 (427)
ULT-1790-5-W	17.1 (484)	230V 50Hz 1Ø	12/13 (P8)			
ULT-2090-5-A	20.5 (580)	115V 60Hz 1Ø	16/20 (P2)			
ULT-2090-5-D	20.5 (580)	208/230V 60Hz 1Ø	12/15 (P4)	20.5 (580)	41.0 x 31.8 x 95.5 (1040 x 808 x 2430)	940 (427)
ULT-2090-5-V	20.5 (580)	230V 50Hz 1Ø	12/16 (P7)			
ULT-2090-5-W	20.5 (580)	230V 50Hz 1Ø	12/13 (P8)			

*All dimensions and specifications subject to change without notice. External dimensions include allowances for cabinet door, hinges, latches, handles, and control panel protrusions.

Thermo Scientific Revco Freezers

Revco Elite Upright Freezers

Temperature Range: -10°C to -40°C						
Model No.	Cu.Ft. (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions* H x D x W inches (mm)	Exterior Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
ULT-1340-5-A	13.4 (379)	115V 60Hz 1Ø	16/20 (P2)	50.5 x 19.5 x 23.5 (1280 x 500 x 600)	77.5 x 31.3 x 37.1 (1970 x 796 x 942)	595 (270)
ULT-1340-5-D	13.4 (379)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1340-5-V	13.4 (379)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1340-5-W	13.4 (379)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1740-5-A	17.2 (487)	115V 60Hz 1Ø	16/20 (P2)	50.5 x 25 x 23.5 (1280 x 640 x 600)	77.5 x 36.8 x 37.1 (1970 x 935 x 942)	630 (286)
ULT-1740-5-D	17.2 (487)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1740-5-V	17.2 (487)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1740-5-W	17.2 (487)	230V 50Hz 1Ø	12/13 (P8)			
ULT-2140-5-A	20.2 (572)	115V 60Hz 1Ø	16/20 (P2)	50.5 x 24.25 x 28.5 (1280 x 620 x 720)	77.5 x 36.1 x 42.2 (1970 x 91 x 1070)	680 (309)
ULT-2140-5-D	20.2 (572)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-2140-5-V	20.2 (572)	230V 50Hz 1Ø	12/16 (P7)			
ULT-2140-5-W	20.2 (572)	230V 50Hz 1Ø	12/13 (P8)			
ULT-2540-5-A	24.4 (691)	115V 60Hz 1Ø	16/20 (P2)	50.5 x 24.25 x 34.5 (1280 x 620 x 880)	77.5 x 36.1 x 48.1 (1970 x 916 x 1222)	770 (350)
ULT-2540-5-D	24.4 (691)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-2540-5-V	24.4 (691)	230V 50Hz 1Ø	12/16 (P7)			
ULT-2540-5-W	24.4 (691)	230V 50Hz 1Ø	12/13 (P8)			

Revco Elite Chest Freezers

Temperature Range: -10°C to -40°C						
Model No.	Cu.Ft. (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions* H x D x W inches (mm)	Exterior Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
ULT-350-5-A	3.1 (88)	115V 60Hz 1Ø	16/20 (P2)	17.0 x 17.0 x 19.0 (430 x 430 x 480)	44.5 x 29.9 x 30.2 (1156 x 760 x 766)	355 (161)
ULT-350-5-D	3.1 (88)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-350-5-V	3.1 (88)	230V 50Hz 1Ø	12/16 (P7)			
ULT-350-5-W	3.1 (88)	230V 50Hz 1Ø	12/13 (P8)			
ULT-750-5-A	6.8 (193)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 23.5 (670 x 480 x 600)	41.0 x 31.8 x 48.5 (1040 x 808 x 1230)	470 (213)
ULT-750-5-D	6.8 (193)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-750-5-V	6.8 (193)	230V 50Hz 1Ø	12/16 (P7)			
ULT-750-5-W	6.8 (193)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1050-5-A	10.3 (292)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 32.25 (670 x 480 x 900)	41.0 x 31.8 x 60.25 (1040 x 808 x 1530)	500 (227)
ULT-1050-5-D	10.3 (292)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1050-5-V	10.3 (292)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1050-5-W	10.3 (292)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1450-5-A	13.7 (388)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 47.0 (670 x 480 x 1190)	41.0 x 31.8 x 72.0 (1040 x 808 x 1830)	650 (295)
ULT-1450-5-D	13.7 (388)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1450-5-V	13.7 (388)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1450-5-W	13.7 (388)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1750-5-A	17.1 (484)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 58.75 (670 x 480 x 1490)	41.0 x 31.8 x 83.75 (1040 x 808 x 2130)	650 (295)
ULT-1750-5-D	17.1 (484)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1750-5-V	17.1 (484)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1750-5-W	17.1 (484)	230V 50Hz 1Ø	12/13 (P8)			
ULT-2050-5-A	20.5 (580)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 70.5 (670 x 480 x 1790)	41.0 x 31.8 x 95.5 (1040 x 808 x 2430)	685 (311)
ULT-2050-5-D	20.5 (580)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-2050-5-V	20.5 (580)	230V 50Hz 1Ø	12/16 (P7)			
ULT-2050-5-W	20.5 (580)	230V 50Hz 1Ø	12/13 (P8)			

*All dimensions and specifications subject to change without notice. External dimensions include allowances for cabinet door, hinges, latches, handles, and control panel protrusions.



Thermo Scientific Revco Value Freezers

Our Revco Value freezers offer a cost-effective alternative for a variety of industrial process and non-critical storage uses. They feature our Legaci refrigeration with rugged cabinet construction and a reliable solid-state control for basic but dependable operation.



Our Revco Value freezers feature a solid-state control system with keyed on/off switch for security.

Control System

- Solid-state control system with adjustable temperature setpoint
- Digital temperature display
- Push-button setpoint display
- Key-operated main power switch

Electrical System

- Automatic voltage boost compensates for low voltage and brownout conditions
- Optional free-standing surge suppressor minimizes effect of voltage spikes from incoming electrical service

Alarm System

- Integrated overtemperature safety alarm with battery back-up and audible warning of temperature deviation
- Exterior alarm contacts for connection to remote monitoring system



Thermo Scientific Revco Freezers

Revco Value Upright Freezers

Temperature Range: -50°C to -86°C

Model No.	Cu.Ft. (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions* H x D x W inches (mm)	Exterior Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
ULT-1386-3-A	13.4 (379)	115V 60Hz 1Ø	16/20 (P2)	50.5 x 19.5 x 23.5 (1280 x 500 x 600)	77.5 x 31.3 x 37.1 (1970 x 796 x 942)	655 (297)
ULT-1386-3-D	13.4 (379)	208/230V 60Hz 1Ø	7.5/15 (P4)			
ULT-1386-3-V	13.4 (379)	230V 50Hz 1Ø	7.5/15 (P7)			
ULT-1386-3-W	13.4 (379)	230V 50Hz 1Ø	7.5/15 (P8)			

Revco Value Chest Freezers

Temperature Range: -40°C to -86°C

Model No.	Cu.Ft. (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions* H x D x W inches (mm)	Exterior Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
ULT-390-3-A	3.1(88)	115V 60Hz 1Ø	16/20 (P2)	17.0 x 17.0 x 19.0 (430 x 430 x 480)	44.5 x 29.9 x 30.2 (1156 x 760 x 766)	415 (188)
ULT-390-3-D	3.1(88)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-390-3-V	3.1(88)	230V 50Hz 1Ø	12/16 (P7)			
ULT-390-3-W	3.1(88)	230V 50Hz 1Ø	12/13 (P8)			
ULT-790-3-A	6.8 (193)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 23.5 (670 x 480 x 600)	41.0 x 31.8 x 48.5 (1040 x 808 x 1230)	525 (238)
ULT-790-3-D	6.8 (193)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-790-3-V	6.8 (193)	230V 50Hz 1Ø	12/16 (P7)			
ULT-790-3-W	6.8 (193)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1090-3-A	10.3 (292)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 32.25 (670 x 480 x 900)	41.0 x 31.8 x 60.25 (1040 x 808 x 1530)	680 (308)
ULT-1090-3-D	10.3 (292)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1090-3-V	10.3 (292)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1090-3-W	10.3 (292)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1490-3-A	13.7 (388)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 47.0 (670 x 480 x 1190)	41.0 x 31.8 x 72.0 (1040 x 808 x 1830)	650 (295)
ULT-1490-3-D	13.7 (388)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1490-3-V	13.7 (388)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1490-3-W	13.7 (388)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1790-3-A	17.1 (484)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 58.75 (670 x 480 x 1490)	41.0 x 31.8 x 83.75 (1040 x 808 x 2130)	770 (350)
ULT-1790-3-D	17.1 (484)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1790-3-V	17.1 (484)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1790-3-W	17.1 (484)	230V 50Hz 1Ø	12/13 (P8)			
ULT-2090-3-A	20.5 (580)	115V 60Hz 1Ø	16/20 (P2)	26.5 x 19.0 x 70.5 (670 x 480 x 1790)	41.0 x 31.8 x 95.5 (1040 x 808 x 2430)	940 (427)
ULT-2090-3-D	20.5 (580)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-2090-3-V	20.5 (580)	230V 50Hz 1Ø	12/16 (P7)			
ULT-2090-3-W	20.5 (580)	230V 50Hz 1Ø	12/13 (P8)			

*All dimensions and specifications subject to change without notice. External dimensions include allowances for cabinet door, hinges, latches, handles, and control panel protrusions.

Our freezers share a standardized inventory configuration of optional racks, boxes and baskets. Chest and upright inventory systems are ordered separately.



Revco Value Upright Freezers

Temperature Range: -10°C to -40°C

Model No.	Cu.Ft. (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions* H x D x W inches (mm)	Exterior Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
ULT-1340-3-A	13.4 (379)	115V 60Hz 1Ø	16/20 (P2)	50.5 x 19.5 x 23.5 (1280 x 500 x 600)	77.5 x 31.3 x 37.1 (1970 x 796 x 942)	595 (270)
ULT-1340-3-D	13.4 (379)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1340-3-V	13.4 (379)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1340-3-W	13.4 (379)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1740-3-A	17.2 (487)	115V 60Hz 1Ø	16/20 (P2)	50.5 x 25 x 23.5 (1280 x 640 x 600)	77.5 x 36.8 x 37.1 (1970 x 935 x 942)	630 (286)
ULT-1740-3-D	17.2 (487)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1740-3-V	17.2 (487)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1740-3-W	17.2 (487)	230V 50Hz 1Ø	12/13 (P8)			
ULT-2140-3-A	20.2 (572)	115V 60Hz 1Ø	16/20 (P2)	50.5 x 24.25 x 28.5 (1280 x 620 x 720)	77.5 x 36.1 x 42.2 (1970 x 916 x 1070)	680 (309)
ULT-2140-3-D	20.2 (572)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-2140-3-V	20.2 (572)	230V 50Hz 1Ø	12/16 (P7)			
ULT-2140-3-W	20.2 (572)	230V 50Hz 1Ø	12/13 (P8)			
ULT-2540-3-A	24.4 (691)	115V 60Hz 1Ø	16/20 (P2)	50.5 x 24.25 x 34.5 (1280 x 620 x 880)	77.5 x 36.1 x 48.1 (1970 x 916 x 1222)	770 (350)
ULT-2540-3-D	24.4 (691)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-2540-3-V	24.4 (691)	230V 50Hz 1Ø	12/16 (P7)			
ULT-2540-3-W	24.4 (691)	230V 50Hz 1Ø	12/13 (P8)			

Revco Value Chest Freezers

Temperature Range: -10°C to -40°C

Model No.	Cu.Ft. (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions* H x D x W inches (mm)	Exterior Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
ULT-350-3-A	3.1(88)	115V 60Hz 1Ø	16/20 (P2)	17.0 x 17.0 x 19.0 (430 x 430 x 480)	44.5 x 29.9 x 30.2 (1156 x 760 x 766)	355 (161)
ULT-350-3-D	3.1(88)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-350-3-V	3.1(88)	230V 50Hz 1Ø	12/16 (P7)			
ULT-350-3-W	3.1(88)	230V 50Hz 1Ø	12/13 (P8)	26.5 x 19.0 x 23.5 (670 x 480 x 600)	41.0 x 31.8 x 48.5 (1040 x 808 x 1230)	470 (213)
ULT-750-3-A	6.8 (193)	115V 60Hz 1Ø	16/20 (P2)			
ULT-750-3-D	6.8 (193)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-750-3-V	6.8 (193)	230V 50Hz 1Ø	12/16 (P7)			
ULT-750-3-W	6.8 (193)	230V 50Hz 1Ø	12/13 (P8)	26.5 x 19.0 x 32.25 (670 x 480 x 900)	41.0 x 31.8 x 60.25 (1040 x 808 x 1530)	500 (227)
ULT-1050-3-A	10.3 (292)	115V 60Hz 1Ø	16/20 (P2)			
ULT-1050-3-D	10.3 (292)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1050-3-V	10.3 (292)	230V 50Hz 1Ø	12/16 (P7)	26.5 x 19.0 x 47.0 (670 x 480 x 1190)	41.0 x 31.8 x 72.0 (1040 x 808 x 1830)	650 (295)
ULT-1050-3-W	10.3 (292)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1450-3-A	13.7 (388)	115V 60Hz 1Ø	16/20 (P2)			
ULT-1450-3-D	13.7 (388)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-1450-3-V	13.7 (388)	230V 50Hz 1Ø	12/16 (P7)	26.5 x 19.0 x 58.75 (670 x 480 x 1490)	41.0 x 31.8 x 83.75 (1040 x 808 x 2130)	650 (295)
ULT-1450-3-W	13.7 (388)	230V 50Hz 1Ø	12/13 (P8)			
ULT-1750-3-A	17.1 (484)	115V 60Hz 1Ø	16/20 (P2)			
ULT-1750-3-D	17.1 (484)	208/230V 60Hz 1Ø	12/15 (P4)	26.5 x 19.0 x 70.5 (670 x 480 x 1790)	41.0 x 31.8 x 95.5 (1040 x 808 x 2430)	685 (311)
ULT-1750-3-V	17.1 (484)	230V 50Hz 1Ø	12/16 (P7)			
ULT-1750-3-W	17.1 (484)	230V 50Hz 1Ø	12/13 (P8)			
ULT-2050-3-A	20.5 (580)	115V 60Hz 1Ø	16/20 (P2)			
ULT-2050-3-D	20.5 (580)	208/230V 60Hz 1Ø	12/15 (P4)			
ULT-2050-3-V	20.5 (580)	230V 50Hz 1Ø	12/16 (P7)			
ULT-2050-3-W	20.5 (580)	230V 50Hz 1Ø	12/13 (P8)			

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Thermo Scientific Revco Ultima II Cryogenic Freezers

Long Term Biologicals Storage

Our Revco Ultima II cryogenic freezers maintain uniform temperatures of -140°C and -150°C, safely below the -130°C glass transition temperature of water. Cell viability is improved because biologically relevant, thermally driven reactions are not known to occur.



Safer, More Convenient Than LN₂

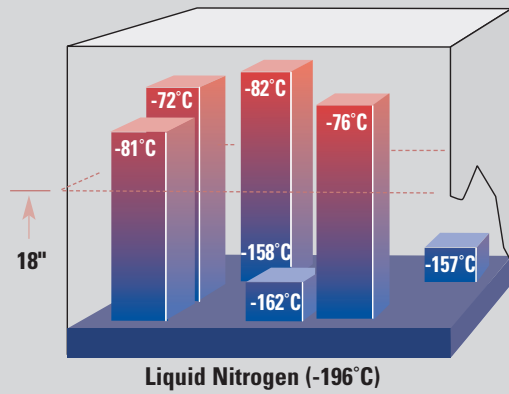
- Our cryogenic freezers include all features, control and performance attributes of the Ultima II Series freezers, plus many important advantages not available when using LN₂
- Stable cryogenic temperature of -140°C and -150°C without LN₂ as a cooling medium
- Patented, single compressor, orbital refrigeration system
- Top-to-bottom temperature uniformity dramatically improved when compared to LN₂ vapor
- Lower operating costs than LN₂ freezers of similar capacity
- 100% of interior space is usable, with stored samples maintained below critical temperature
- Ample interior volume with capacity of up to 21,600 samples in Model ULT-10140 and up to 14,400 samples in Model ULT-7150 (2 ml vials in boxes)
- Uses standard Thermo Scientific Revco inventory racks and fiberboard boxes

Refrigeration System

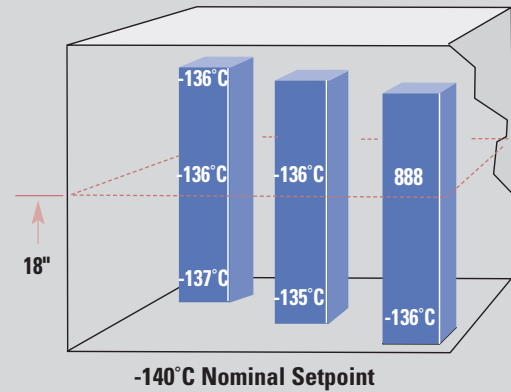
- Exclusive mixed refrigerant autocasade with a single, orbital refrigeration compressor, air-cooled
- CFC-free refrigerants
- Downfeed evaporator for most efficient refrigerant flow
- High-capacity air-cooled condenser with dual condenser fans, aerodynamically shaped fan blades
- Washable condenser filter keeps fins free of dust to maintain peak cooling efficiency; no tools required for removal

Thermo Scientific Revco Ultima II Mechanical Refrigeration Delivers Superior Uniformity

Liquid Nitrogen Vapor Storage



Mechanically Refrigerated Cryogenic Freezer



Comparison of temperature distribution in a liquid nitrogen freezer (vapor phase) and mechanically refrigerated cryogenic freezer (i.e. Revco Ultima II Model ULT10140-9). Graph represents temperatures at relative locations within the chamber. Data suggests that 100% of the Ultima II storage space maintains uniform storage temperatures safely below -130°C, while temperature in LN₂ vapor system is dependent on storage location.

Revco Ultima II IntrLogic controls monitor all functions for safe, dependable and economical operation; shown with optional LN₂ backup system.



Control System

- Exclusive IntrLogic microprocessor control system with touchpad data entry and digital display of all functions
- Setpoint security system with key-operated switch for main power and alarm locks in temperature and alarm setpoints
- Independent operating temperature and high/low limit alarm functions with factory-set defaults for quick start-up, all setpoints adjustable in 1°C increments

Thermo Scientific Revco Ultima II Cryogenic Chest Freezers



Choose from two chest models, with operating temperatures of -140°C and -150°C. Model ULT-10140-9 shown with optional temperature recorder.

Revco Ultima II -140°C Cryogenic Chest Freezers

Operating Temperature: -140°C

Model No.	Cu.Ft. (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions* H x D x W inches (mm)	Exterior Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
ULT-10140-9-D		208/230V 60Hz 1Ø	20.0/30 (P6)			
ULT-10140-9-E		208/230V 60Hz 3Ø	16.0/20 (HW ¹)			
ULT-10140-9-M	10.3	380V 50Hz 3Ø	11.0/15 (HW ¹)	26.5 x 19.0 x 35.25	42.75 x 29.0 x 69.0	1065
ULT-10140-9-R	(292)	200V 50Hz 3Ø	16.0/20 (HW ¹)	(670 x 480 x 890)	(1090 x 740 x 1760)	(483)
ULT-10140-9-V		230V 50Hz 1Ø	20.0/30 (HW ¹)			
ULT-10140-9-W		230V 50Hz 1Ø	20.0/30 (HW ¹)			

Revco Ultima II -150°C Cryogenic Chest Freezers

Operating Temperature: -150°C

Model No.	Cu.Ft. (L)	Electrical	Amps/ Breaker (Plug)	Interior Dimensions* H x D x W inches (mm)	Exterior Dimensions* H x D x W inches (mm)	Ship Weight lb (kg)
ULT-7150-9-D		208/230V 60Hz 1Ø	20.0/30 (P6)			
ULT-7150-9-E		208/230V 60Hz 3Ø	16.0/20 (HW ¹)			
ULT-7150-9-M	6.8	380V 50Hz 3Ø	11.0/15 (HW ¹)	26.5 x 19.0 x 23.5	42.75 x 29.0 x 58.0	825
ULT-7150-9-R	(193)	200V 50Hz 3Ø	16.0/20 (HW ¹)	(670 x 480 x 590)	(1090 x 740 x 1480)	(374)
ULT-7150-9-V		230V 50Hz 1Ø	20.0/30 (HW ¹)			
ULT-7150-9-W		230V 50Hz 1Ø	20.0/30 (HW ¹)			

*All dimensions and specifications subject to change without notice. External dimensions include allowances for cabinet door, hinges, latches, handles, and control panel protrusions. ¹No plug provided; requires hardwire connection by customer.

Innovative Features and Rewarding Benefits

Thermo Scientific Revco	Ultima II	Elite	Value	Ultima II Cryogenic	Benefit
Operating Temperature	-86°C or -40°C	-86°C or -40°C	-86°C or -40°C	-150°C or -140°C	
Refrigeration System					
Legaci refrigeration system	•	•	•		Long life, dependability for ultra-low use
Orbital refrigeration system				•	Patented, single compressor system developed for cryogenic use
1 HP industrial grade compressor(s)	•	•	•		Refrigeration power
CFC-free refrigerants	•	•	•	•	Environmentally friendly, high performance
DuPont Suva low-stage refrigerants	•	•	•		Specially formulated for ultra-low applications
Downfeed evaporator	•	•	•	•	Smoother refrigerant flow
Washable condenser filter	•	•	•	•	Maintains peak condenser efficiency
Control Technology					
Microprocessor-based or solid-state	IntrLogic	Microprocessor	Solid-State	IntrLogic	Digital accuracy
Setpoint security	•			•	Locks in operating and alarm setpoints
Temperature and high/low setpoints	•	•		•	Adjustable in 1°C increments
Electrical System					
Automatic voltage boost	•	•	•	•	Compensates for low voltage
Digital power monitoring	•	•		•	Displays actual incoming line voltage
Surge suppressor	•	optional	optional	•	Minimizes effect of voltage spikes
Alarm System					
A.I.M. (Automatic Incident Monitor)	•	•		•	Identifies temperature deviations
Audible/visual warning	•	•	audible only	•	Automatic
Battery backup	•	•	•	•	Automatic
Battery capacity indicator	•	•		•	Displays % battery power remaining
Touchpad alarm test	•	•		•	Simulates overtemperature condition
RS-232 data port	•	optional		•	Includes software for data export to PC
Remote alarm contacts	•	•	•	•	For connection to remote monitoring system
Monitoring System					
Lifeguard compressor protection	•			•	Monitors/adjusts compressor performance
Extreme ambient alert	•			•	Warns if room temperature is too warm
Voltage boost indicator	•	•		•	Alerts to low power, boosts low voltage
Check fuse indicator	•			•	Alerts to surge suppressor event
Clean filter indicator	•	•		•	Advises when to remove and clean filter
Cabinet Construction, General					
Foamed-in-place urethane insulation	•	•	•	•	Higher "R" value
1" (25.4mm) diameter access port	•	•	•	•	Easy access through wall
Coved corner interior	•	•	•	•	Easy to clean, improved uniformity
Enhanced acoustic insulation	•	•		•	Reduces compressor sound
Heavy duty swivel casters	•	•	•	•	Cabinet mobility as required
Upright Cabinets					
Eye-level IntrLogic controller	•				Easy to read, convenient access
CryoLatch	•	•	•	n/a	One-handed operation
Low-profile design	•	•	•	n/a	Only 77.5" (1970mm) high
Pressure equalization port	•	•	•	n/a	Faster re-entry to freezer
Four shelves and five inner doors	•	•	•	n/a	Creates five interior compartments
Chest Cabinets					
Low-profile design with stay-open lid	•	•	•	•	Easier access to inventory
Insulated sub-lids	•	•	•	•	Additional protection



NALGENE[®] and NUNC[™] cryogenic storage give you everything you need to safely store precious specimens, organize freezer space and simplify sample retrieval.

NALGENE and NUNC combine to provide one-stop shopping for the widest variety and highest quality of externally and internally threaded cryovials, storage boxes, lab top coolers and "Mr. Frosty" controlled rate freezing containers.

For further information regarding these products - visit www.nalgene.com or www.nuncbrand.com

Electrical Information

Thermo Scientific Revco freezers are designed to meet UL, CUL and CE criteria for safety and performance. All connections must comply with local electrical codes.

- Selection charts for each standard model list voltage, rated amperage, recommended circuit breaker size and NEMA (National Electrical Manufacturers' Association, USA) electrical plug information
- Freezers are supplied with line cord plugs (P) which require corresponding receptacles illustrated on the line cord plug reference chart (right)
- Site preparation requires availability of the proper receptacle; a dedicated circuit is recommended
- Some freezers require a hardwire connection to a dedicated circuit. This connection is the responsibility of the customer and must be made by a qualified electrician
- Special voltage selections may be available at extra cost and must be specified when ordering
- For questions regarding site preparation, installation and electrical connection, contact your sales representative

Certification of Calibration

Control, alarm and temperature recording systems are systematically calibrated at the factory for accurate performance. An optional certificate of calibration to an NIST (National Institute of Standards and Technology, formerly National Bureau of Standards) traceable instrument includes a model number and serial number certificate (single point calibration). Multiple point calibration is also available. Calibration certificates must be requested when ordering.

Validation Testing Program

Validation testing services in advance of shipment can accelerate in-house FDA Installation Qualification (IQ) and Operation Qualification (OQ) programs. Validation services include documentation and performance reports, compressor and sub-system component specifications, microprocessor flow diagrams, software specifications, and more.



Line Cord Plug Reference

Models with this code	have this plug	require this receptacle	NEMA Reference	
			Plug	Receptacle
P1			5-15P	5-15R
P2			5-20P	5-20R
P3			5-30P	5-30R
P4			6-15P	6-15R
P5			6-20P	6-20R
P6			6-30P	6-30R
P7 European				
P8 British				

North America: North America: USA/Canada +1 866 984 3766
Europe: Austria +43 1 801 40 0, Belgium +32 2 482 30 30, Finland +358 9 329 100, France +33 2 2803 2000, Germany national toll free 08001-536 376, Germany international +49 6184 90 6940, Italy +39 02 95059 1, Netherlands +31 76 571 4440, Russia/CIS +7 (812) 703 42 15, Spain/Portugal +34 93 223 09 18, Switzerland +41 44 454 12 12, UK/Ireland +44 870 609 9203
Asia: China +86 21 6865 4588 or +86 10 5850 3588, India +91 22 5542 9494, Japan +81 45 453 9220, Other Asian countries +852 2885 4613
Countries not listed: +49 6184 90 6940 or +33 2 2803 2000

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